CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/WNo.15/KRIDL/CUBE/2014-15

15.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements and Construction of cement concrete road & RCC culverts at Coconut Garden Passages in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : EE/DD/WO/114/2014-15 Dated: 30.06.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.135	475.5	21.13
2	18.07.2014	15.08.2014	8.265	489.3	21.75
3	18.07.2014	15.08.2014	8.322	510.3	22.68

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/WNo.15/KRIDL/CUBE/2014-15

16.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements and Construction of cement concrete road & RCC culverts at Coconut Garden Passages in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	: EE/DD/WO/114/2014-15 Dated: 30.06.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2014	16.08.2014	8.198	482.5	21.44
2	19.07.2014	16.08.2014	8.235	498.6	22.16
3	19.07.2014	16.08.2014	8.315	526.3	23.39

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Job No.: CTCE/BBMP/WNo.15/KRIDL/CUBE/2014-15

18.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements and Construction of cement concrete road & RCC culverts at Coconut Garden Passages in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	: EE/DD/WO/114/2014-15 Dated: 30.06.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	18.08.2014	8.110	485.5	21.58
2	21.07.2014	18.08.2014	8.290	512.3	22.77
3	21.07.2014	18.08.2014	8.335	532.3	23.66

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Job No.: CTCE/BBMP/WNo.15/KRIDL/Precast slab/2014-15

28.07.2014

TEST REPORT ON CONCRETE CORE (PRECAST SLAB)

Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of work	:	Improvements and Construction of cement concrete road & RCC culverts at Coconut Garden Passages in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	:	EE/DD/WO/114/2014-15 Dated: 30.06.2014
No.of Sample Tested	:	03
Date of Testing	:	28.07.2014
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.389	2539.95	1.56	0.955	32.0	16.30	17.60	16.81	21.01
2	50.00	80.00	0.402	2559.21	1.60	0.964	33.0	16.81	18.15	17.50	21.87
3	50.00	79.00	0.392	2527.14	1.58	0.960	33.5	17.06	18.43	17.69	22.11

Note:

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